

FIG. 2

Open Access Hub Signal Path

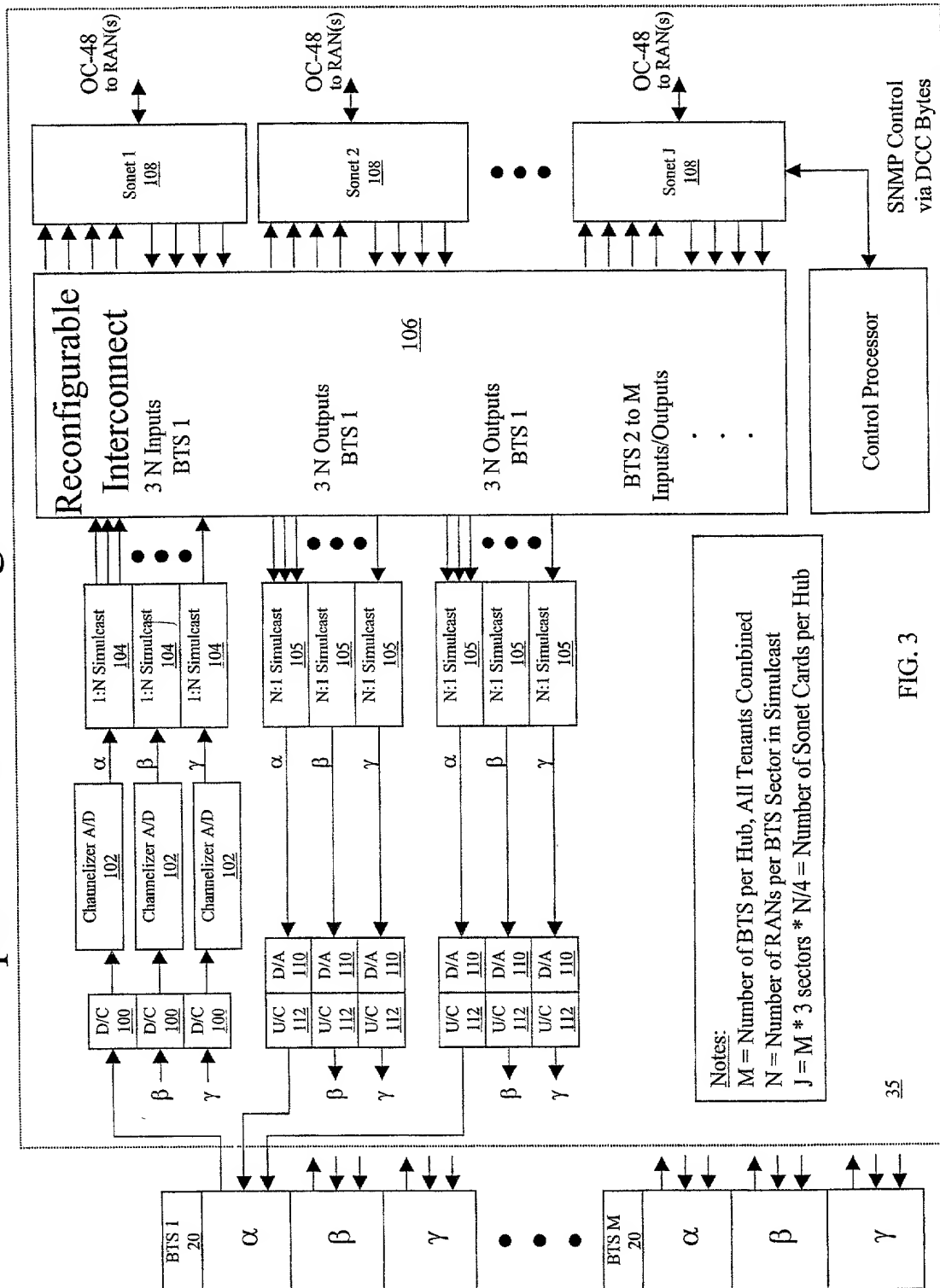


FIG. 3

Open Access RAN Signal Path

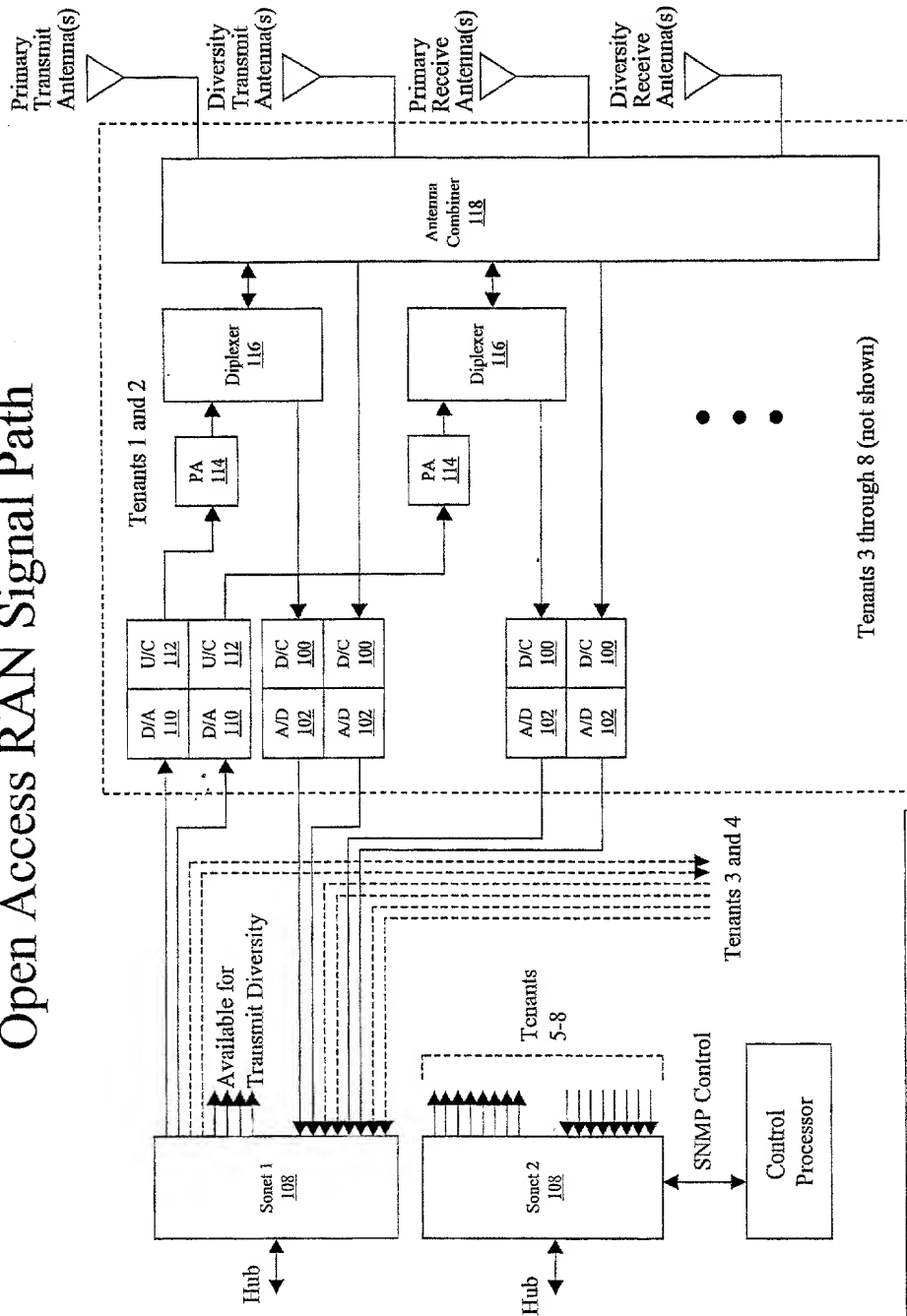


FIG. 4

Simulcast Varied to Equalize Reverse Link Budgets and to Balance With Forward Link Budget

	CDMA	TDMA	GSM1900
Reverse Link			
Mobile Transmit Power	23 dBm	28 dBm	30 dBm
RAN Sensitivity	-120 dBm	-111 dBm	-110 dBm
Allowable Reverse Path Loss without Simulcast			
Number in Simulcast	143 dB 8	139 dB 3	140 dB 4
Allowable Reverse Path Loss with Simulcast	134 dB	134 dB	134 dB
Forward Link			
RAN Transmit Power per Traffic Channel	20 dBm	32 dBm	32 dBm
Mobile Sensitivity less Interference Margin	-114 dBm	-102 dBm	-102 dBm
Allowable Forward Path Loss	134 dB	134 dB	134 dB

FIG. 5

FIG. 6 is a diagram illustrating a multi-operator, multi-protocol distributed wireless network architecture. The diagram shows a central grid representing a geographic area, overlaid with a dashed grid. The grid is divided into sectors, each associated with a specific operator and a set of RF link budgets. The diagram illustrates how a central hub interconnects these sectors, selecting RF link budgets for each base station to equalize RF link budgets across the network.

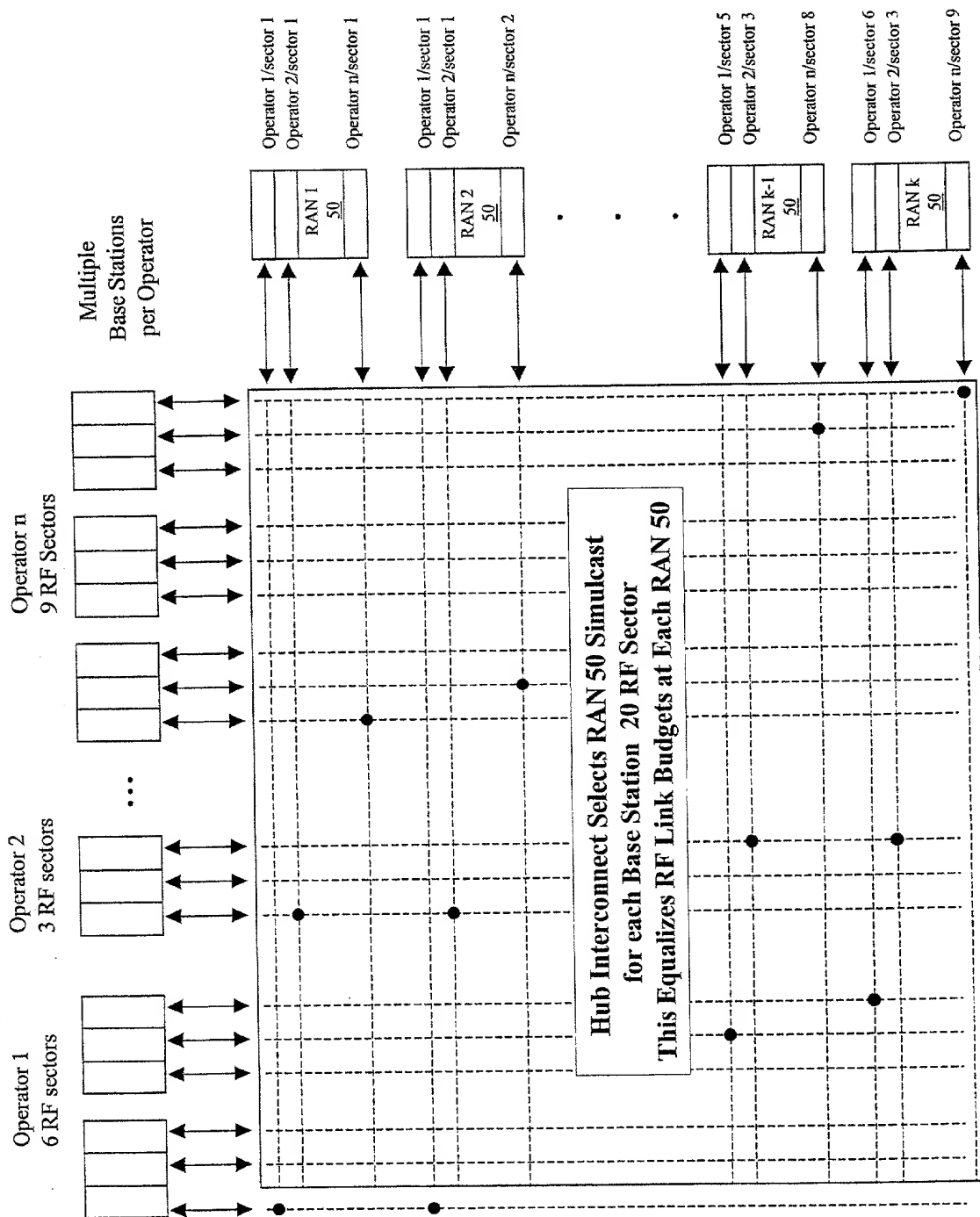
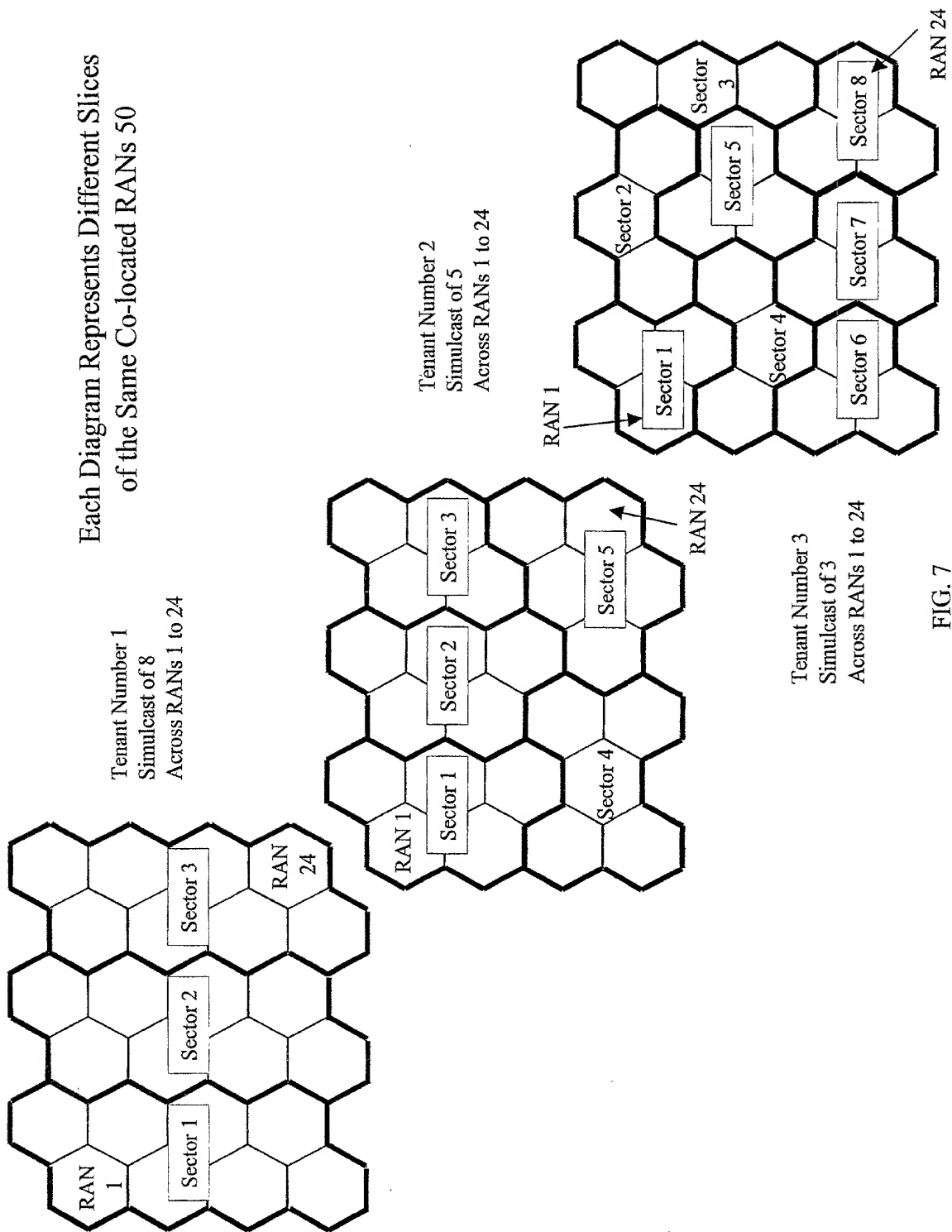


FIG. 6



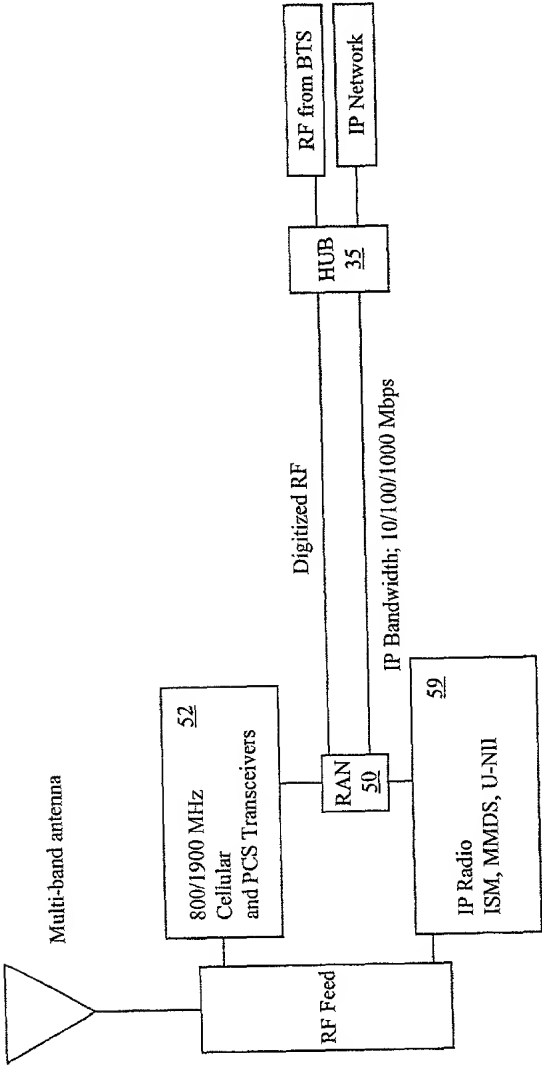


FIG. 8

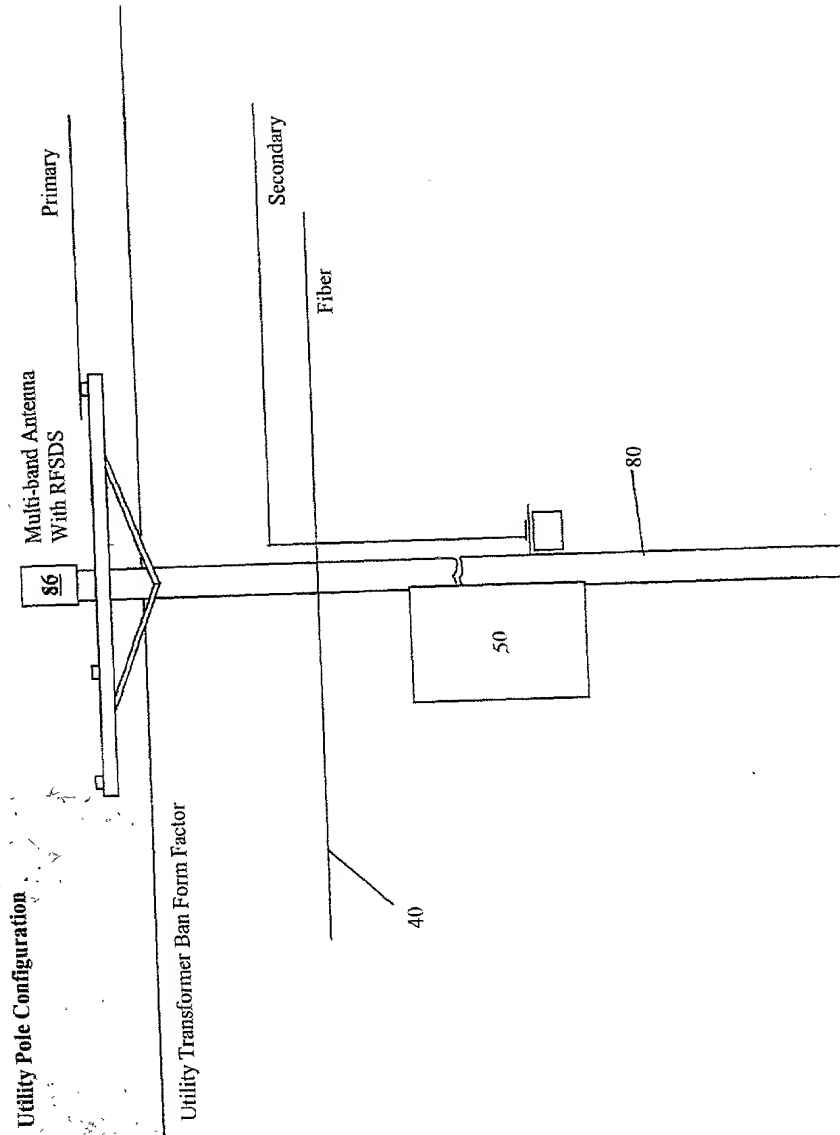


FIG. 9